Company Mid Continent Energy Corporation — Lease & Well No. #1 Moldenhauer

Elevation 1399 Ground Level — Formation Mississippi — Effective Pay -- Ft. — Ticket No. 16118

Date 8/ 27 /82 — Sec. 27 — Twp. 32S — Range 7W — County Harper — State Kansas

Test Approved by Larry Schneider — Western Representative Rod Tritt

Formation Test No. 1 — Interval Tested from 4444 ft. to 4463 ft. — Total Depth 4463 ft.

Packer Depth 4437 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4442 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4449 ft. — Recorder Number 2606 — Cap. 4150

Bottom Recorder Depth (Outside) 4452 ft. — Recorder Number 4332 — Cap. 4200

Below Straddle Recorder Depth - ft. — Recorder Number - — Cap. -

Drilling Contractor Blue Goose Drlg. Rig #1 — Drill Collar Length 303 — I. D. 2¼ in.

Mud Type chem-drispac — Viscosity 42 — Weight Pipe Length - — I. D. - in.

Weight 9.3 — Water Loss 20.0 cc. — Drill Pipe Length 4121 — I. D. 3.8 in.

Chlorides 21,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½ OD in.

Jars: Make No — Serial Number - — Anchor Length 19 ft. — Size 5½ OD in.

Did Well Flow? No — Reversed Out No — Surface Choke Size 3/4 in. — Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. — Tool Joint Size 4½ FH in.

Blow: Strong blow throughout test. Gas to surface thirty minutes into initial flow period.
See attached sheet for gas measurements.

Recovered 150 ft. of gassy mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:30 ~~A.M.~~ P.M. — Time Started Off Bottom 2:00 A.M. ~~P.M.~~ — Maximum Temperature 132°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2328 | P.S.I. | |
| Initial Flow Period | Minutes | 45 | (B) | 75 | P.S.I. to (C) | 75 P.S.I. |
| Initial Closed In Period | Minutes | 45 | (D) | 1638 | P.S.I. | |
| Final Flow Period | Minutes | 60 | (E) | 86 | P.S.I. to (F) | 86 P.S.I. |
| Final Closed In Period | Minutes | 60 | (G) | 1599 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 2205 | P.S.I. | |

WTC-1

# GAS FLOW REPORT

Date 8/27/82 Ticket 16118 Company Mid Continent Energy Corporation

Well Name and No. #1 Moldenhauer Dst No. 1 Interval Tested 4444'-4463'

County Harper State Kansas Sec. 27 Twp. 32S Rg. 7W

| Time Gauge in Min. | P.S.I. on Merla Orifice Well Tester | Size of Orifice | P.S.I. on Pitot Tester | P.S.I. on Side Static Tester | | Description of Flow |
|---|---|---|---|---|---|---|
| **PRE FLOW** | | | | | | |
| 30 min. | | | 1/2" | orifice | | Gas to surface |
| 40 min | 11" of water | | 1/2" | orifice | | 20,900 CFPD |
| 45 min. | 11" of water | | 1/2" | orifice | | 20,900 CFPD |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| **SECOND FLOW** | | | | | | |
| 10 min. | 28" of | water | 1/2" | orifice | | 33,200 CFPD |
| 20 min. | 16" of | water | 1/2" | orifice | | 25,100 CFPD |
| 30 min. | 12" of | water | 1/2" | orifice | | 21,900 CFPD |
| 40 min. | 12" of | water | 1/2" | orifice | | 21,900 CFPD |
| 50 min. | 12" of | water | 1/2" | orifice | | 21,900 CFPD |
| 60 min. | 12" of | water | 1/2" | orifice | | 21,900 CFPD |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

## GAS BOTTLE

Serial No. ---- Date Bottle Filled -- Date to be Invoiced 8/27/82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Mid Continent Energy Corporation

Authorized by Larry Schneider

FORM WTC 6

# WESTERN TESTING CO., INC.
## Pressure Data

Date 8/27/82 Test Ticket No. 16118

Recorder No. 2606 Capacity 4150 Location 4449 Ft.

Clock No. -- Elevation 1399 Ground Level Well Temperature 132 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2328 P.S.I. | Open Tool | 10:30P M | |
| B First Initial Flow Pressure | 75 P.S.I. | First Flow Pressure | 45 Mins. | 45 Mins. |
| C First Final Flow Pressure | 75 P.S.I. | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D Initial Closed-in Pressure | 1638 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E Second Initial Flow Pressure | 86 P.S.I. | Final Closed-in Pressure | 60 Mins. | 60 Mins. |
| F Second Final Flow Pressure | 86 P.S.I. | | | |
| G Final Closed-in Pressure | 1599 P.S.I. | | | |
| H Final Hydrostatic Mud | 2205 P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 75 |
| P 2 5 | 75 |
| P 3 10 | 75 |
| P 4 15 | 75 |
| P 5 20 | 75 |
| P 6 25 | 75 |
| P 7 30 | 75 |
| P 8 35 | |
| P 9 40 | |
| P10 45 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

**Initial Shut-In**
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 75 |
| 3 | 624 |
| 6 | 896 |
| 9 | 1095 |
| 12 | 1246 |
| 15 | 1348 |
| 18 | 1423 |
| 21 | 1475 |
| 24 | 1515 |
| 27 | 1546 |
| 30 | 1571 |
| 33 | 1591 |
| 36 | 1607 |
| 39 | 1622 |
| 42 | 1632 |
| 45 | 1638 |

**Second Flow Pressure**
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 86 |
| 5 | 86 |
| 10 | 86 |
| 15 | 86 |
| 20 | 86 |
| 25 | 86 |
| 30 | 86 |
| 35 | 86 |
| 40 | 86 |
| 45 | 86 |
| 50 | 86 |
| 55 | 86 |
| 60 | 86 |

**Final Shut-In**
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 86 |
| 3 | 339 |
| 6 | 566 |
| 9 | 775 |
| 12 | 945 |
| 15 | 1072 |
| 18 | 1180 |
| 21 | 1266 |
| 24 | 1321 |
| 27 | 1370 |
| 30 | 1408 |
| 33 | 1446 |
| 36 | 1473 |
| 39 | 1497 |
| 42 | 1520 |
| 45 | 1538 |
| 48 | 1555 |
| 51 | 1566 |
| 54 | 1579 |
| 57 | 1589 |
| 60 | 1599 |

2606 DST #1

TKT # 16118

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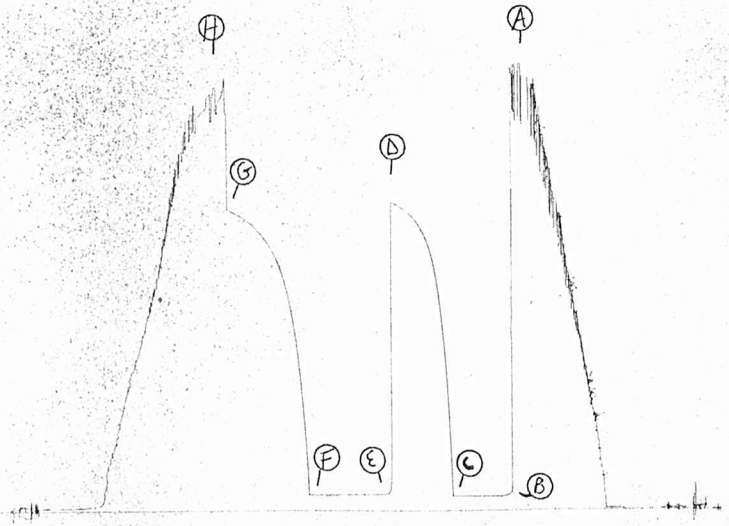

Company Mid Continent Energy Corporation — Lease & Well No. #1 Moldenhauer

Elevation 1399 Ground Level Formation Viola — Effective Pay -- Ft. Ticket No. 16119

Date 8/ 29 /82 Sec. 27 Twp. 32S Range 7W — County Harper State Kansas

Test Approved by Larry Schneider — Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 4831 ft. to 4839 ft. Total Depth 4839 ft.

Packer Depth 4826 ft. Size 6 3/4 in. — Packer Depth - ft. Size - in.

Packer Depth 4831 ft. Size 6 3/4 in. — Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4833 ft. — Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4836 ft. — Recorder Number 4332 Cap. 4200

Below Straddle Recorder Depth - ft. — Recorder Number - Cap. -

Drilling Contractor Blue Goose Drlg. Rig #1 — Drill Collar Length 303 I. D. 2¼ in.

Mud Type chemical gel Viscosity 53 — Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 18.4 cc. — Drill Pipe Length 4508 I. D. 3.8 in.

Chlorides 23,000 P.P.M. — Test Tool Length 20 ft. Tool Size 5½OD in.

Jars: Make No Serial Number - — Anchor Length 8 ft. Size 5½OD in.

Did Well Flow? No Reversed Out No — Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½FH in.

Blow: Strong blow throughout test. Gas to surface eight minutes on initial flow period.
See attached sheet for gas measurements.

Recovered 400 ft. of gassy oil

Recovered 65 ft. of gas cut froggy oil

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:20 A.M. ~~P.M.~~ Time Started Off Bottom 12:20 A.M. P.M. Maximum Temperature 135°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2659 | P.S.I. | |
| Initial Flow Period | Minutes | 30 | (B) | 88 P.S.I. | to (C) | 94 P.S.I. |
| Initial Closed In Period | Minutes | 30 | (D) | 526 P.S.I. | | |
| Final Flow Period | Minutes | 60 | (E) | 124 P.S.I. | to (F) | 155 P.S.I. |
| Final Closed In Period | Minutes | 63 | (G) | 203 P.S.I. | | |
| Final Hydrostatic Pressure | | | (H) | 2402 P.S.I. | | |

WTC-1

# GAS FLOW REPORT

Date 8/29/82 Ticket 16119 Company Mid Continent Energy Corporation

Well Name and No. Moldenhauer #1 Dst No. 2 Interval Tested 4831'-4839'

County Harper State Kansas Sec. 27 Twp. 32S Rg. 7W

| Time Gauge in Min. | P.S.I. on Merla Orifice Well Tester | Size of Orifice | P.S.I. on Pitot Tester | P.S.I. on Side Static Tester | | Description of Flow |
|---|---|---|---|---|---|---|
| **PRE FLOW** | | | | | | |
| 08 min. | | | 1/2" orifice | | | Gas to surface |
| 10 min. | 2.0 PSIG | | 1/2" orifice | | | 47,700 CFPD |
| 20 min. | 2.0 PSIG | | 1/2" orifice | | | 47,700 CFPD |
| 30 min. | 2.0 PSIG | | 1/2" orifice | | | 47,700 CFPD |
| **SECOND FLOW** | | | | | | |
| 10 min. | 2.0 PSIG | | 1/2" orifice | | | 47,700 CFPD |
| 20 min. | 2.0 PSIG | | 1/2" orifice | | | 47,700 CFPD |
| 30 min | 1.5 PSIG | | 1/2" orifice | | | 41,000 CFPD |
| 40 min | 1.0 PSIG | | 1/2" orifice | | | 33,900 CFPD |
| 50 min | 28" of water | | 1/2" orifice | | | 33,200 CFPD |
| 60 min. | 5" of water | | 1/2" orifice | | | 14,100 CFPD |

## GAS BOTTLE

Serial No. ---- Date Bottle Filled --- Date to be Invoiced 8/29/82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Mid Continent Energy Corporation

Authorized by Larry Schneider

FORM WTC 6

# WESTERN TESTING CO., INC.
## Pressure Data

Date 8/29/82 Test Ticket No. 16119

Recorder No. 2606 Capacity 4150 Location 4833 Ft.

Clock No. -- Elevation 1399 Ground Level Well Temperature 135 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2659 P.S.I. | Open Tool | 9:20A M | |
| B First Initial Flow Pressure | 88 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C First Final Flow Pressure | 94 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D Initial Closed-in Pressure | 526 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E Second Initial Flow Pressure | 124 P.S.I. | Final Closed-in Pressure | 60 Mins. | 63 Mins. |
| F Second Final Flow Pressure | 155 P.S.I. | | | |
| G Final Closed-in Pressure | 203 P.S.I. | | | |
| H Final Hydrostatic Mud | 2402 P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point | Mins. | Press. |
|---|---|---|
| P 1 | 0 | 88 |
| P 2 | 5 | 88 |
| P 3 | 10 | 88 |
| P 4 | 15 | 88 |
| P 5 | 20 | 90 |
| P 6 | 25 | 92 |
| P 7 | 30 | 94 |
| P 8 | | |
| P 9 | | |
| P10 | | |
| P11 | | |
| P12 | | |
| P13 | | |
| P14 | | |
| P15 | | |
| P16 | | |
| P17 | | |
| P18 | | |
| P19 | | |
| P20 | | |

**Initial Shut-In**
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| | 0 | 94 |
| | 3 | 462 |
| | 6 | 484 |
| | 9 | 497 |
| | 12 | 505 |
| | 15 | 511 |
| | 18 | 514 |
| | 21 | 517 |
| | 24 | 520 |
| | 27 | 523 |
| | 30 | 526 |

**Second Flow Pressure**
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| | 0 | 124 |
| | 5 | 124 |
| | 10 | 124 |
| | 15 | 124 |
| | 20 | 124 |
| | 25 | 124 |
| | 30 | 125 |
| | 35 | 129 |
| | 40 | 134 |
| | 45 | 139 |
| | 50 | 145 |
| | 55 | 150 |
| | 60 | 155 |

**Final Shut-In**
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| | 0 | 155 |
| | 3 | 159 |
| | 6 | 163 |
| | 9 | 167 |
| | 12 | 174 |
| | 15 | 175 |
| | 18 | 177 |
| | 21 | 179 |
| | 24 | 181 |
| | 27 | 183 |
| | 30 | 185 |
| | 33 | 187 |
| | 36 | 189 |
| | 39 | 191 |
| | 42 | 193 |
| | 45 | 195 |
| | 48 | 196 |
| | 51 | 197 |
| | 54 | 198 |
| | 57 | 199 |
| | 60 | 200 |
| | 63 | 203 |

2606 DST 2

TKT # 16119

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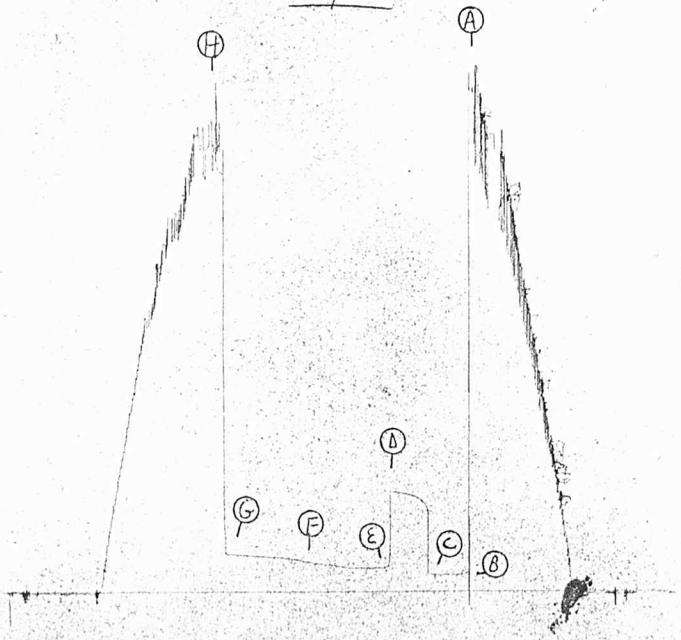

Company Mid Continent Energy Corporation — Lease & Well No. #1 Moldenhauer

Elevation 1399 Ground Level — Formation Simpson Sand — Effective Pay -- Ft. — Ticket No. 16120

Date 8/ 30 /82 — Sec. 27 — Twp. 32S — Range 7W — County Harper — State Kansas

Test Approved by Larry Schneider — Western Representative Rod Tritt

Formation Test No. 3 — Interval Tested from 4840 ft. to 4847 ft. — Total Depth 4847 ft.

Packer Depth 4835 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4840 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4841 ft. — Recorder Number 2606 — Cap. 4150

Bottom Recorder Depth (Outside) 4844 ft. — Recorder Number 4332 — Cap. 4200

Below Straddle Recorder Depth - ft. — Recorder Number - — Cap. -

Drilling Contractor Blue Goose Drlg. Rig #1 — Drill Collar Length 303 — I. D. 2¼ in.

Mud Type chemical spec — Viscosity 58 — Weight Pipe Length - — I. D. - in.

Weight 9.4 — Water Loss 14.4 cc. — Drill Pipe Length 4516 — I. D. 3.8 in.

Chlorides 23,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½OD in.

Jars: Make No — Serial Number - — Anchor Length 7 ft. — Size 5½OD in.

Did Well Flow? No — Reversed Out No — Surface Choke Size 3/4 in. — Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. — Tool Joint Size 4½FH in.

Blow: Weak to light blow on initial flow period. Weak to light blow on final flow period. No gas to surface.

Recovered 200 ft. of muddy water — Chlorides 84,000 ppm

Recovered ft. of (Some oil on top stand)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:40 A.M. P.M. — Time Started Off Bottom 3:40 A.M. P.M. — Maximum Temperature 135°

| | | | | |
|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) | 2485 | P.S.I. |
| Initial Flow Period | Minutes 30 | (B) | 42 P.S.I. to (C) | 42 P.S.I. |
| Initial Closed In Period | Minutes 33 | (D) | 1716 | P.S.I. |
| Final Flow Period | Minutes 60 | (E) | 85 P.S.I. to (F) | 89 P.S.I. |
| Final Closed In Period | Minutes 66 | (G) | 1813 | P.S.I. |
| Final Hydrostatic Pressure | | (H) | 2443 | P.S.I. |

WTC-1

# WESTERN TESTING CO., INC.
## Pressure Data

Date 8/30/82 Test Ticket No. 16120

Recorder No. 2606 Capacity 4150 Location 4841 Ft.

Clock No. -- Elevation 1399 Ground Level Well Temperature 135 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2485 P.S.I. | Open Tool | 12:40A M | |
| B First Initial Flow Pressure | 42 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C First Final Flow Pressure | 42 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 33 Mins. |
| D Initial Closed-in Pressure | 1716 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E Second Initial Flow Pressure | 85 P.S.I. | Final Closed-in Pressure | 60 Mins. | 66 Mins. |
| F Second Final Flow Pressure | 89 P.S.I. | | | |
| G Final Closed-in Pressure | 1813 P.S.I. | | | |
| H Final Hydrostatic Mud | 2443 P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

| Point | Mins. | Press. |
|---|---|---|
| P 1 | 0 | 42 |
| P 2 | 5 | 42 |
| P 3 | 10 | 42 |
| P 4 | 15 | 42 |
| P 5 | 20 | 42 |
| P 6 | 25 | 42 |
| P 7 | 30 | 42 |
| P 8 | | |
| P 9 | | |
| P10 | | |
| P11 | | |
| P12 | | |
| P13 | | |
| P14 | | |
| P15 | | |
| P16 | | |
| P17 | | |
| P18 | | |
| P19 | | |
| P20 | | |

**Initial Shut-In**
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| | 0 | 42 |
| | 3 | 45 |
| | 6 | 59 |
| | 9 | 243 |
| | 12 | 952 |
| | 15 | 1307 |
| | 18 | 1471 |
| | 21 | 1557 |
| | 24 | 1618 |
| | 27 | 1662 |
| | 30 | 1695 |
| | 33 | 1716 |

**Second Flow Pressure**
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| | 0 | 85 |
| | 5 | 85 |
| | 10 | 85 |
| | 15 | 85 |
| | 20 | 85 |
| | 25 | 85 |
| | 30 | 85 |
| | 35 | 85 |
| | 40 | 85 |
| | 45 | 86 |
| | 50 | 87 |
| | 55 | 89 |
| | 60 | |

**Final Shut-In**
Breakdown: 22 Inc. of 3 mins. and a final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| | 0 | 89 |
| | 3 | 110 |
| | 6 | 237 |
| | 9 | 541 |
| | 12 | 1048 |
| | 15 | 1338 |
| | 18 | 1475 |
| | 21 | 1548 |
| | 24 | 1607 |
| | 27 | 1648 |
| | 30 | 1678 |
| | 33 | 1703 |
| | 36 | 1722 |
| | 39 | 1737 |
| | 42 | 1753 |
| | 45 | 1766 |
| | 48 | 1775 |
| | 51 | 1784 |
| | ~~54~~ | ~~1792~~ |
| | 57 | 1800 |
| | ~~60~~ | 1806 |
| | 63 | ~~1810~~ |
| | 66 | 1813 |

2606 DST #3

FKT # 16120

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